

Notice of Allowability	Application No.	Applicant(s)	
	10/691,066	TORMASOV ET AL.	
	Examiner	Art Unit	
	Cam Y T. Truong	2162	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 2/21/2007.
2. ☒ The allowed claim(s) is/are 1-11, 15, 17, 19-21, 23 and 26-28.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date <u>4/25/2007</u> 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____. |
|---|--|

Cam Y Truong
 Primary Examiner
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DETAILED ACTION

1. Applicant has amended claims 1, 26 and 28 in the amendment filed on 2/11/2007.

Claims 1-12, 14-24, 26-28 are pending in this Office Action.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney George S. Bardmesser on 4/26/2007.

In claims: please replace 1, 5, 15, 17, 19-20, 26 and 28 with amended claims 1, 5, 15, 17, 19-20, 26 and 28.

Please delete claims 12-14, 16, 18, 22 and 24.

1. (currently amended) A computer system for providing access to shareable files of a plurality of local user processes, comprising:

- an operating system;
- a processor;
- a file system locally mounted in the operating system;
- the plurality of local user processes running locally in the computer system under control of the operating system;
- each user of a plurality of users having at least one corresponding local user process;
- a sharable file tree storing each shareable file having a file path;
- the file system receiving a first local user process request for accessing a shareable file but not to modify the shareable file, the accessing is being executed by using any local user process of the plurality of the local user processes, wherein each shareable file of the shareable files is being accessible using file system calls, and said each shareable file is stored in a file storage memory location;
- the computer system separately creating, for each user of the plurality of users, a user file tree, the user file tree is linked with the shareable file tree, and with local user processes, the shareable file tree mounted locally in the file system, wherein the user file tree comprises at least one link inside the file system, wherein the link is connected with a file path of a referenced file accessible using the file system calls of the operating system, such that the user file tree points to the referenced file in response to a local user process for a request to access a file;

multiple user file trees and the shareable file tree have a same mounting point;
said computer system allowing each user of a private file area to define a permitted access to a selected shareable file without copying the selected shareable file into a user's private file area, and accessing only files in a file linked with the mounting point corresponding to the user's private file area;

wherein each user's private file area storing a file accessible using the file system calls of the operating system, but there are no paths for other user's local user processes to access files from any other local user's private file area of the computer system by using the file system calls of the operating system, and

the file system deletes a selected private file stored in the private file area, deletes a link connected to the selected private file in the user file tree upon receiving a second local user process request.

5. (currently amended) The computer system of claim 4, wherein the modification of the user tree is transparent to the user.

15. (currently amended) The method of Claim 26, further comprising the steps of:

receiving a local user process request to access a selected shareable file to modify the shareable file;

copying the selected shareable file into the private file area associated with the user;

modifying the user file tree associated with the user such that a link associated with the selected shareable file point to the copy of the selected shareable file located in the private file area associated with the user.

26. (currently amended) A method for providing access to shareable files in a computer network to a plurality of local user processes, comprising the steps of:

- initializing an operating system;
- mounting a file system locally in the operating system;
- running locally the plurality of local user processes in the computer system under control of the operating system;
- instantiating a plurality of users, each user of the plurality of users having at least one corresponding local user process;
- storing each shareable file having a file path in a sharable file tree;
- receiving a first local user process request for accessing the shareable files but not to modify the shareable files, the accessing of the shareable files are being executed by using any local user process of the plurality of the local user processes, wherein each shareable file of the shareable files is accessible using file system calls and is stored in a file storage memory location;
- creating separately, for each user of the plurality of users, a user file tree, the user file tree is being linked with the shareable file tree, and with local user processes, the shareable file tree mounted locally in the file system, wherein the user file tree further comprises at least one link inside the file system, wherein the link is connected

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with a file path of a referenced file accessible using file system calls of the operating system, such that the user file tree points to the referenced file in response to a local user process for a request to access a file, and

wherein multiple user file trees and the shareable file tree have a same mounting point;

allowing each user of a private file area to define a permitted access to a selected shareable file without copying the selected shareable file into a user's private file area;

accessing only files in a file linked with the mounting point corresponding to the user's private file area, wherein each user's private file area stores a file accessible using the file system calls of the operating system, but there are no paths for other user's local user processes to access files from any other local user's private file area of the computer system by using the file system calls of the operating system;

receiving a second local user process request to delete a selected private file stored in the private file area; and

deleting the selected private file and deleting a link that is connected to the private file in the user file tree upon response to the second local user process request.

28. (currently amended) A computer system for providing access to shareable files of a plurality of local user processes, comprising:

a processor;

an operating system;

a local file system locally accessible by the operating system;

a plurality of users, each user of the plurality of users having a corresponding local user process;

the local user processes running locally in the computer system under control of the operating system;

a sharable file tree storing each shareable file having a file path;

the computer system maintains only one version of any shareable file;

the file system receives a first local user process request for accessing a shareable file but not to modify the shareable file, the accessing is being executed by using any local user process of the plurality of the local user processes, wherein each shareable file of the shareable files is being accessible using file system calls, and said each shareable file is stored in a file storage memory location;

the computer system separately creating, for each user of the plurality of users, a user file tree, the user file tree is linked with the shareable file tree, and with local user processes, the shareable file tree mounted locally in the file system, wherein the user file tree comprises at least one link inside the file system, wherein the link is connected to a file path of a referenced file accessible using the file system calls of the operating system, such that the user file tree points to the referenced file in response to a local user process for a request to access a file;

multiple user file trees and the shareable file tree have a same mounting point;

said computer system allowing each user of a private file area to define a permitted access to a selected shareable file without copying the selected shareable file

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into a user's private file area, and accessing only files in a file linked with the mounting point corresponding to the user's private file area;

wherein each user's private file area storing a file accessible using the file system calls of the operating system, but there are no paths for other user's local user processes to access files from any other local user's private file area of the computer system by using the file system calls of the operating system, and

the file system deletes a selected private file stored in the private file area, deletes a link connected to the selected private file in the user file tree upon receiving a second local user process request.

17. (currently amended) The method of Claim 26, further comprising the steps of:

receiving a local user process request to delete a selected private file stored in the private file area, wherein the selected private file is not associated with a link; and deleting the selected private file in response to the local user process request to delete the selected private file.

19. (currently amended) The method of Claim 26, wherein the step of creating a private file area further comprises the step of creating a private file area associated with a selected set of the plurality of users.

20. (currently amended) The method of Claim 26, further comprising the step of creating a metadata associated with a selected one of links associated with a shareable file in the shareable file tree.

Allowable Subject Matter

3. Claims 1-11,15,17,19-21,23 and 26-28 are allowed.

The prior art of record, alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claims 1 and 28 wherein “the computer system separately creating, for each user of the plurality of users, a user file tree, the user file tree is linked with the shareable file tree, and with local user processes, the shareable file tree mounted locally in the file system, wherein the user file tree comprises at least one link inside the file system, wherein the link is connected to a file path of a referenced file accessible using the file system calls of the operating system, such that the user file tree points to the referenced file in response to a local user process for a request to access a file; multiple user file trees and the shareable file tree have a same mounting point; said computer system allowing each user of a private file area to define a permitted access to a selected shareable file without copying the selected shareable file into a user’s private file area, and accessing only files in a file linked with the mounting point corresponding to the user’s private file area; wherein each user’s private file area storing a file accessible using the file system calls of the operating system, but there are no paths for other user’s local user processes to access files from any other local user’s private file area of the computer system by using the file system calls of the operating system, and the file system deletes a selected private file stored in the private file area, deletes a link connected to the selected private file in the user file tree upon receiving a second local user process request”; and

The prior art of record, alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claim 26, wherein "creating separately, for each user of the plurality of users, a user file tree, the user file tree is being linked with the shareable file tree, and with local user processes, the shareable file tree mounted locally in the file system, wherein the user file tree further comprises at least one link inside the file system, wherein the link is connected with a file path of a referenced file accessible using file system calls of the operating system, such that the user file tree points to the referenced file in response to a local user process for a request to access a file, and wherein multiple user file trees and the shareable file tree have a same mounting point; allowing each user of a private file area to define a permitted access to a selected shareable file without copying the selected shareable file into a user's private file area; accessing only files in a file linked with the mounting point corresponding to the user's private file area, wherein each user's private file area stores a file accessible using the file system calls of the operating system, but there are no paths for other user's local user processes to access files from any other local user's private file area of the computer system by using the file system calls of the operating system; deleting the selected private file and deleting a link that is connected to the private file in the user file tree upon response to the second local user process request."


The dependent claims, bring definite, further limiting, and fully enabled by the specification are also allowed.

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cam Y T. Truong whose telephone number is (571) 272-4042. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


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